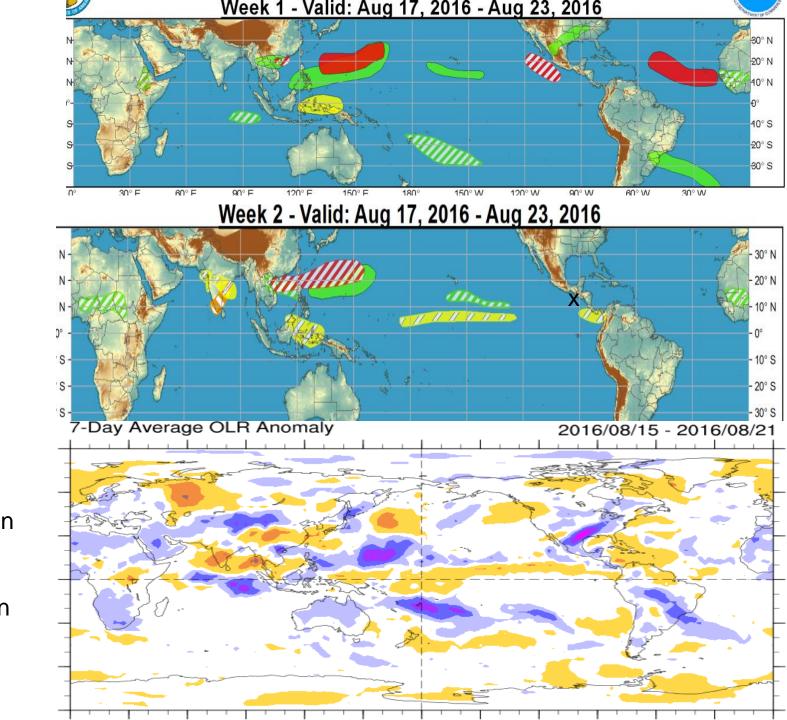
Global Tropics Hazards And Benefits Outlook <u>August 23, 2016</u>

Anthony Artusa

<u>Outline</u>

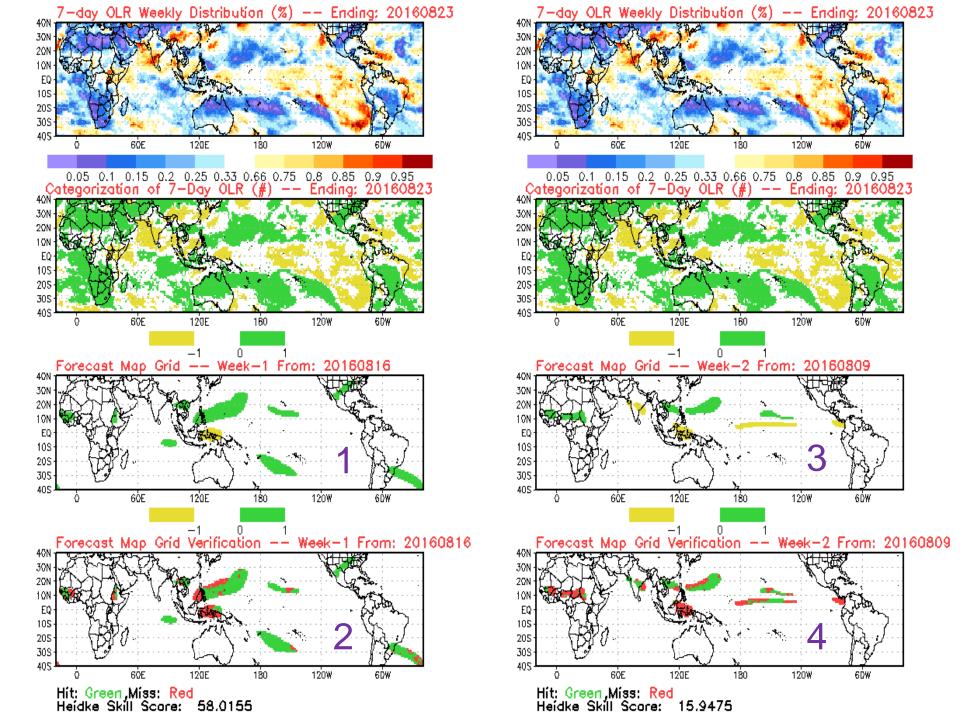
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

Outlook Review



Cool shading More clouds/rain

Warm shading Less clouds/rain



Synopsis of Climate Modes

ENSO:

La Niña Watch

La Niña is favored to develop during August - October 2016, with about a 55-60% chance of La Niña during the fall and winter 2016-17.

MJO and other subseasonal tropical variability:

- Enhanced phase of MJO/Tropical Storm Aliasing/Monsoon Trough over western North Pacific
- Dynamical models indicate signal will remain over western North Pacific through Week-2, & either weaken or remain a similar intensity
- Difficult to determine partial contributions from MJO/Tropical Storm Aliasing/Monsoon Trough

Extratropics:

• The extended range temperature and precipitation forecasts for the CONUS are not likely to be impacted by the MJO.

Maries of Co.

Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Aug 31, 2016 - Sep 06, 2016



Confidence
High Moderate

Produced: 08/23/2016

Forecaster: Artusa

Tropical Cyclone Formation Development of a tropical cyclone (tropical depression - TD, or greater strength).

Above-average rainfall Weekly total rainfall in the upper third of the historical range.

Weekly total rainfall in the lower third of the historical range.

7-day mean temperatures in the upper third of the historical range.

Below-normal temperatures 7-day mean temperatures in the lower third of the historical range.

Product is updated once per week, except from 6/1 - 11/30 for the region from 120E to 0, 0 to 40N. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.



Below-average rainfall

Above-normal temperatures













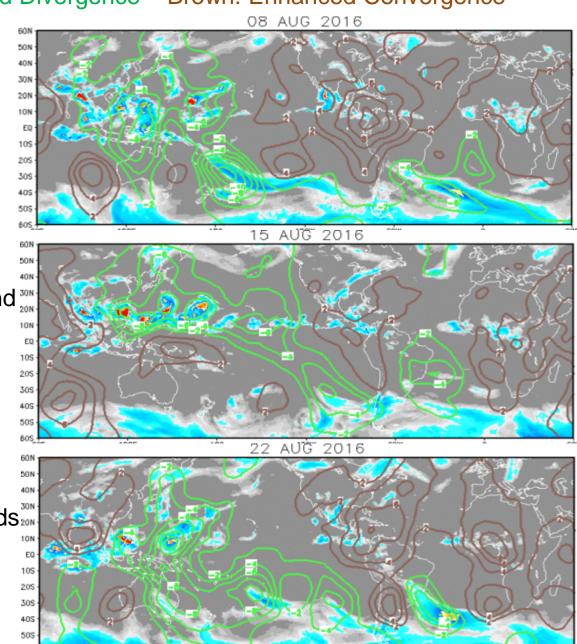
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

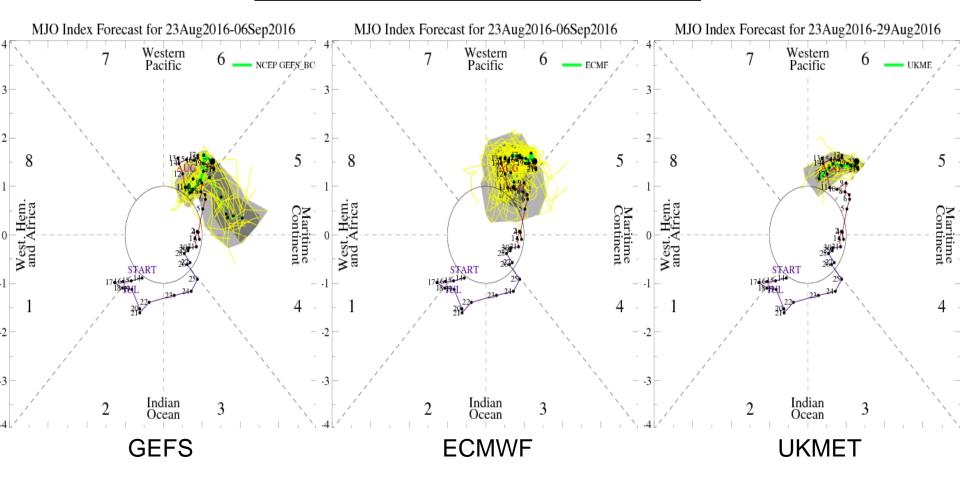
In general, a Wave-2-like pattern

Enhanced convection over tropical North Pacific & around Solution S. America.... Suppressed convection elsewhere.

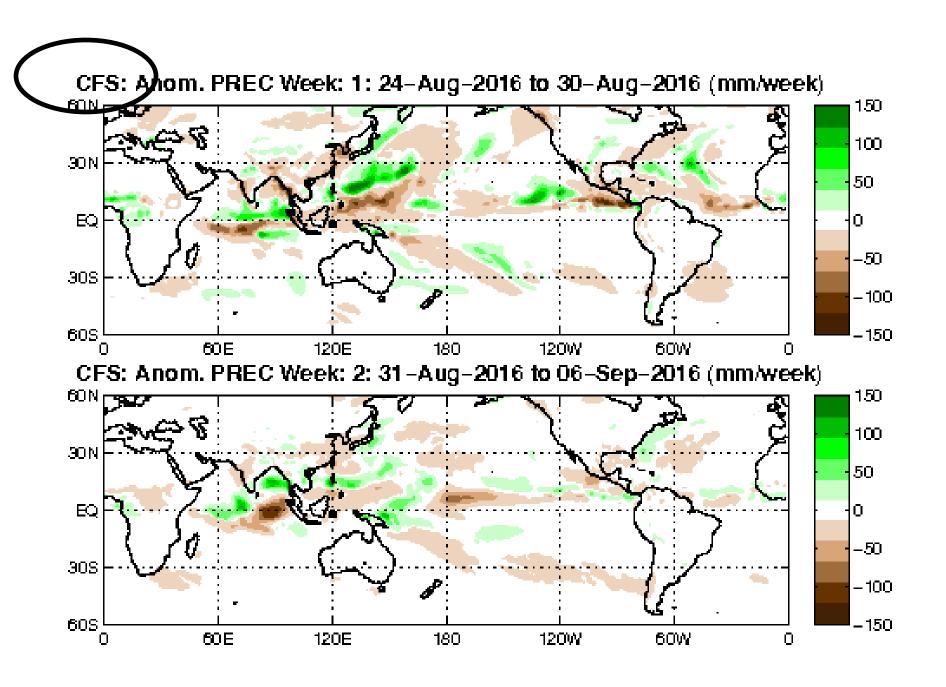
Appearing to coalesce towards a Wave-1-like pattern with enhanced divergence over Pacific/Maritime Continent.

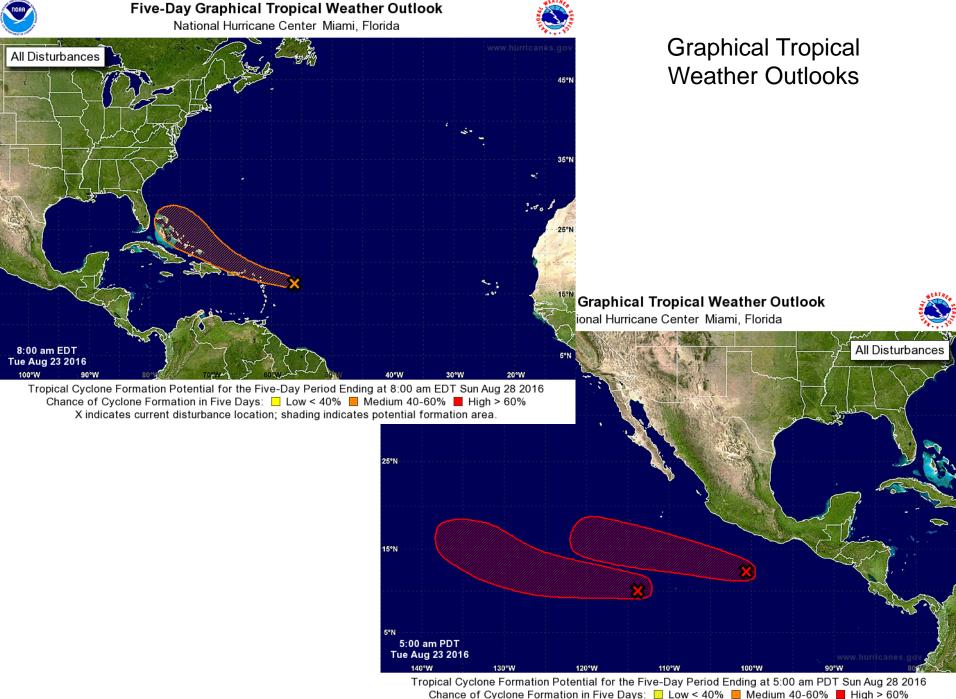


MJO Observation/Forecast

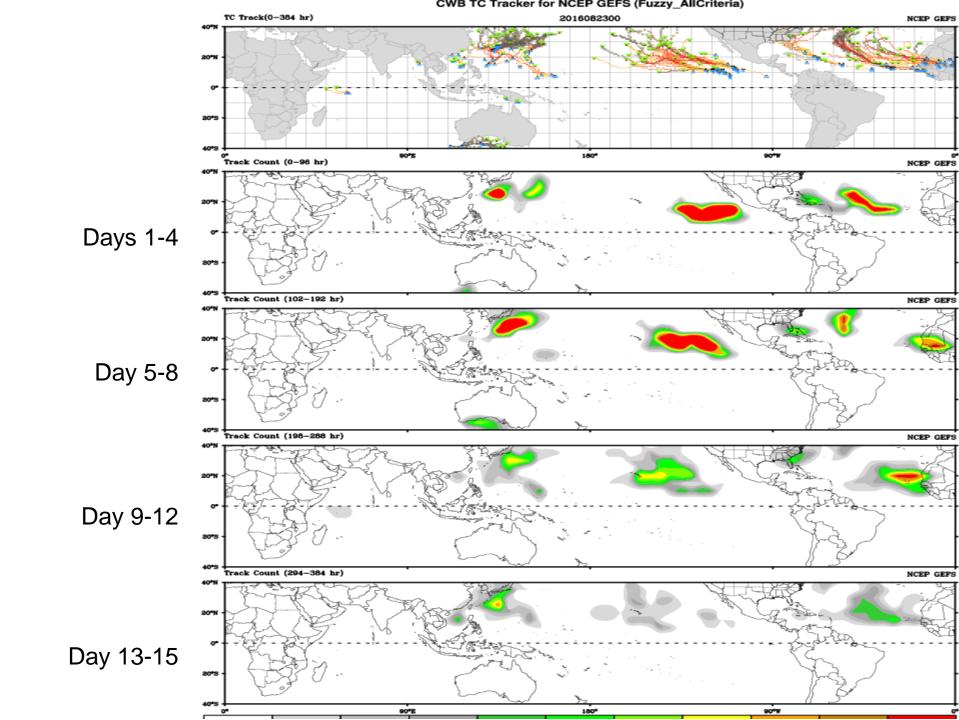


Wheeler-Hendon based analyses of model forecasts indicate a continued signal for Weeks 1&2 over the western North Pacific, with little if any eastward propagation, and similar amplitude.

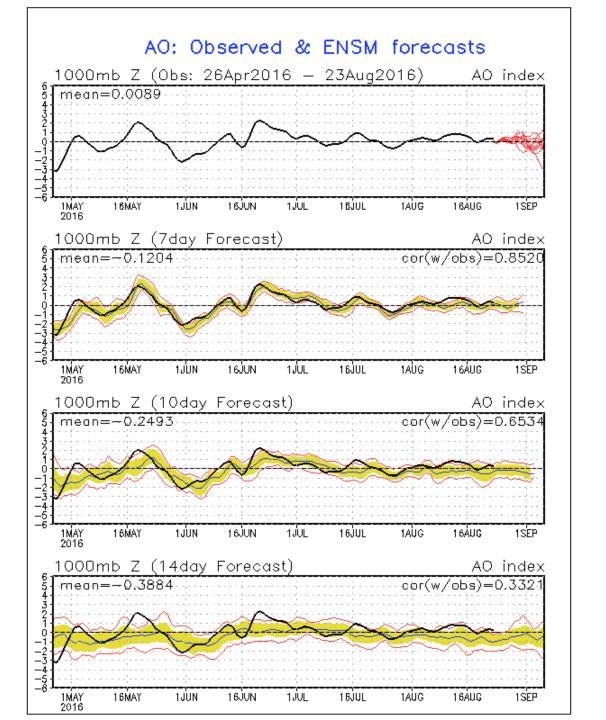


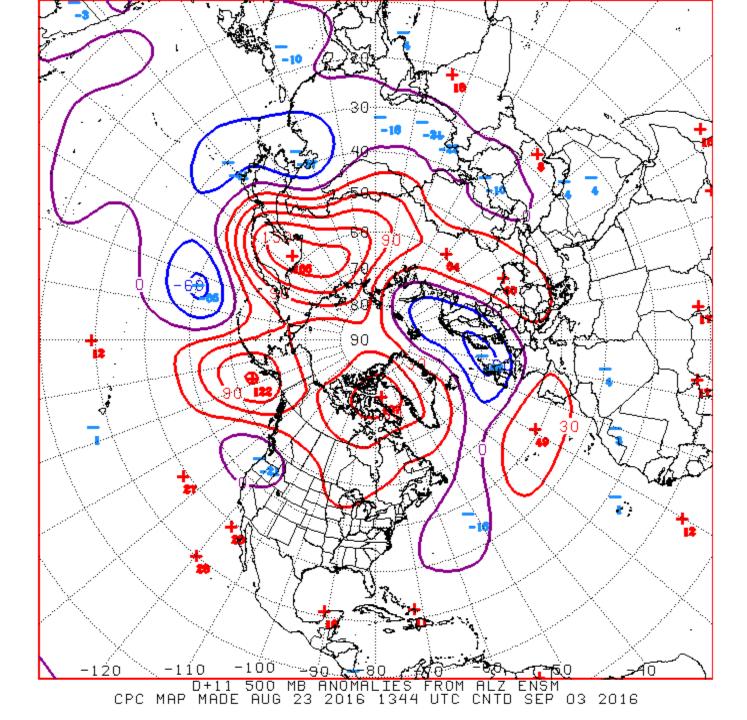


Chance of Cyclone Formation in Five Days: ☐ Low < 40% ☐ Medium 40-60% ☐ High > 60% X indicates current disturbance location; shading indicates potential formation area.

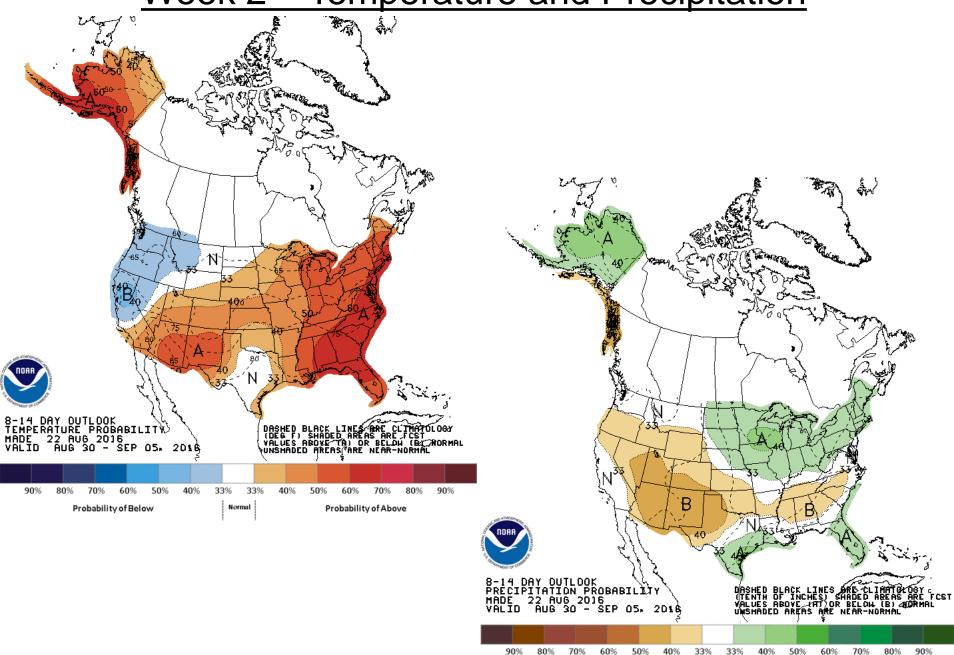


Connections to U.S. Impacts





Week 2 - Temperature and Precipitation



Probability of Below

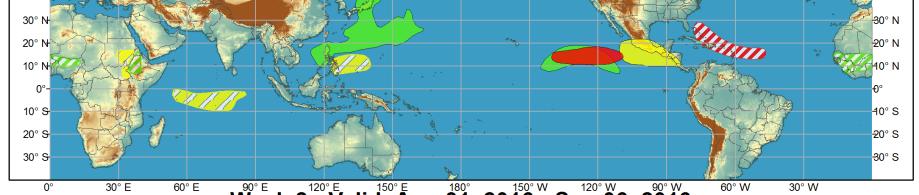
Probability of Above



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







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